

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	17268	(data with (stor\$3 or warehous\$3 or mart\$1 or reposit\$6 or deposit\$6) same (extract\$3 or mine or mining or retriev\$3) and transact\$6 and analy\$6)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/10/18 15:51
S2	12148	S1 and @ad<"20030425"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/10/20 16:46
S3	416	S2 and (((transaction\$5 with data) same (analy\$6 with proces\$5))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/10/18 15:57
S4	45	S3 and (((transform\$5 or translat\$4) with data) same (analy\$6 with proces\$5))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/10/18 17:46
S5	39	S4 and ((stag\$2 or step\$2 or modul\$2 or proces\$5) same (indicat\$3 or notif\$7 or dectec\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/10/18 16:36
S6	40	S4 and ((stag\$2 or step\$2 or modul\$2 or proces\$5) same (indicat\$3 or notif\$7 or detec\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/10/18 16:37
S7	35	S4 and ((stag\$2 or step\$2 or modul\$2 or proces\$5) with (indicat\$3 or notif\$7 or detec\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/10/18 16:38
S8	0	S4 and ("707".ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/10/18 17:46

## EAST Search History

S9	15	S4 and ("707/" .ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/10/18 18:06
S10	13	("20020133490" "20020144174" "20040210579" "6049599" "6173310" "6266668" "6272478" "6301471" "6430545" "6460037" "6473757" "6510457" "6636860").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/10/18 18:06
S11	15	("20020133490" "20020144174" "20040210579" "6049599" "6173310" "6266668" "6272478" "6301471" "6430545" "6460037" "6473757" "6510457" "6636860" "20040002961" "20040215501").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/10/18 18:07
S12	15	("20020133490" "20020144174" "20040210579" "6049599" "6173310" "6266668" "6272478" "6301471" "6430545" "6460037" "6473757" "6510457" "6636860" "20040002961" "20040215501").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/10/19 15:03
S13	6	S12 and (messag\$3 or alert\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/10/19 15:04
S14	17301	(data with (stor\$3 or warehous\$3 or mart\$1 or reposit\$6 or deposit\$6) same (extract\$3 or mine or mining or retriev\$3) and transact\$6 and analy\$6)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/10/19 18:53
S15	12148	S14 and @ad<"20030425"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/10/19 18:53
S16	416	S15 and ((transaction\$5 with data) same (analy\$6 with proces\$5))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/10/19 18:54

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S17	45	S16 and (((transform\$5 or translats\$4) with data) same (analy\$6 with proces\$5))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/10/19 18:54
S18	15	S17 and (error\$3 with proces\$6)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/10/19 18:55
S19	43	((surajit adj Chaudhuri) and (OLAP\$1 or OLTP\$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/10/20 16:46
S20	39	S19 and @ad<"20030425"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/10/20 16:48
S21	8	S20 and extract\$4 and transform\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/10/20 16:48

Terms used **Data warehouse OLTP** or **OLAP**

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## 1 [An overview of data warehousing and OLAP technology](#)



Surajit Chaudhuri, Umeshwar Dayal

March 1997 **ACM SIGMOD Record**, Volume 26 Issue 1

**Publisher:** ACM Press

Full text available:  pdf(101.60 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Data warehousing and on-line analytical processing (OLAP) are essential elements of decision support, which has increasingly become a focus of the database industry. Many commercial products and services are now available, and all of the principal database management system vendors now have offerings in these areas. Decision support places some rather different requirements on database technology compared to traditional on-line transaction processing applications. This paper provides an overview ...

## 2 [A comparison of data warehousing methodologies](#)



Arun Sen, Atish P. Sinha

March 2005 **Communications of the ACM**, Volume 48 Issue 3

**Publisher:** ACM Press

Full text available:  pdf(117.81 KB)  html(28.41 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Using a common set of attributes to determine which methodology to use in a particular data warehousing project.

## 3 [OLAP: An analysis of additivity in OLAP systems](#)



John Horner, Il-Yeol Song, Peter P. Chen

November 2004 **Proceedings of the 7th ACM international workshop on Data warehousing and OLAP**
**Publisher:** ACM Press

Full text available:  pdf(322.41 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Accurate summary data is of paramount concern in data warehouse systems; however, there have been few attempts to completely characterize the ability to summarize measures. The sum operator is the typical aggregate operator for summarizing the large amount of data in these systems. We look to uncover and characterize potentially inaccurate summaries resulting from aggregating measures using the sum operator. We discuss the effect of classification hierarchies, and non-, semi-, and fully- addi ...

**Keywords:** OLAP, additivity, data warehouse, metadata, summarization

## 4 [An introduction to data warehousing: what are the implications for the network?](#)

Katherine Jones

February 1998 **International Journal of Network Management**, Volume 8 Issue 1

**Publisher:** John Wiley & Sons, Inc.

Data warehousing is an information systems environment, rather than a product. It has emerged as an essential business entity for sophisticated analysis of data. This article presents a clear overview of the implications of data warehousing for business. © 1998 John Wiley & Sons, Ltd.

5 [Balancing redundancy and query costs in distributed data warehouses](#)

Klaus-Dieter Schewe, Jane Zhao

January 2005 **Proceedings of the 2nd Asia-Pacific conference on Conceptual modelling - Volume 43 APCCM '05**

**Publisher:** Australian Computer Society, Inc.

Full text available:  [pdf\(240.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Abstract State Machines (ASMs) encourage high-level system specifications without forcing the development into the "formal methods straight-jacket". This makes them an ideal formal method for applications in areas, where otherwise only semi-formal methods are used. One such area is the development of data warehouse and on-line analytical processing (OLAP) applications to which this article contributes. Based on an ASM ground model for data warehouses we show which problems have to be solved in t ...

**Keywords:** abstract state machine, cost model, data warehouse, distribution, refinement


6 [Incremental update to aggregated information for data warehouses over Internet](#)



Miranda Chan, Hong Va Leong, Antonio Si

November 2000 **Proceedings of the 3rd ACM international workshop on Data warehousing and OLAP**

**Publisher:** ACM Press

Full text available:  [pdf\(248.52 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

**Keywords:** Internet, aggregated information, data warehouse, distributed databases, incremental refresh and propagate


7 [Data warehousing and OLAP for decision support](#)



Surajit Chaudhuri, Umeshwar Dayal

June 1997 **ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international conference on Management of data SIGMOD '97**, Volume 26 Issue 2

**Publisher:** ACM Press

Full text available:  [pdf\(223.22 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

On-Line Analytical Processing (OLAP) and Data Warehousing are decision support technologies. Their goal is to enable enterprises to gain competitive advantage by exploiting the ever-growing amount of data that is collected and stored in corporate databases and files for better and faster decision making. Over the past few years, these technologies have experienced explosive growth, both in the number of products and services offered, and in the extent of coverage in the tra ...

8 [The GOLD definition language \(GDL\): an object oriented formal specification language for multidimensional databases](#)



Juan Trujillo, Manuel Palomar, Jaime Gómez

March 2000 **Proceedings of the 2000 ACM symposium on Applied computing - Volume 1**

**Publisher:** ACM Press

Full text available:  [pdf\(421.67 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** OLAP, conceptual modeling, data warehouses, multidimensional databases,

9 Industry/government track posters: Analytical view of business data



Adam Yeh, Jonathan Tang, Youxuan Jin, Sam Skrivan

August 2004 **Proceedings of the tenth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '04**

**Publisher:** ACM Press

Full text available: pdf(337.00 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes a logical extension to Microsoft Business Framework (MBF) called Analytical View (AV). AV consists of three components: Model Service for design time, Business Intelligence Entity (BIE) for programming model, and IntelIDrill for runtime navigation between OLTP and OLAP data sources. AV feature-set fulfills enterprise application requirements for Analysis and Decision Support, complementing the transactional feature-set currently provided by MBF. Model Service automatically t ...

**Keywords:** OLAP, OLTP, analytics, application framework, business intelligence, entity persistence, information retrieval and navigation, object-oriented

10 Improving the performance of lineage tracing in data warehouse



Satyadeep Patnaik, Marshall Meier, Brian Henderson, Joe Hickman, Brajendra Panda

February 1999 **Proceedings of the 1999 ACM symposium on Applied computing**

**Publisher:** ACM Press

Full text available: pdf(680.83 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** data warehousing, lineage tracing query, performance analysis, tag

11 Teaching data warehousing and data mining in a graduate program of information technology

Roger Fang, Sama Tuladhar

May 2006 **Journal of Computing Sciences in Colleges**, Volume 21 Issue 5

**Publisher:** Consortium for Computing Sciences in Colleges

Full text available: pdf(316.55 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Data warehousing and data mining are technologies that deliver critical and optimally useful information to facilitate performance analysis of business organizations. These technologies are not only an emerging trend in information technology but also a booming market in a range of industries. In light of this continuously growing demand, schools are accelerating to prepare students with these technologies. This paper describes the key components that comprise a course which would introduce both ...

12 starER: a conceptual model for data warehouse design



Nectaria Tryfona, Frank Busborg, Jens G. Borch Christiansen

November 1999 **Proceedings of the 2nd ACM international workshop on Data warehousing and OLAP**

**Publisher:** ACM Press

Full text available: pdf(742.63 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Modeling data warehouses is a complex task focusing, very often, into internal structures and implementation issues. In this paper we argue that, in order to accurately reflect the users requirements into an error-free, understandable, and easily extendable data warehouse schema, special attention should be paid at the conceptual modeling phase. Based on a real mortgage business warehouse environment, we present a set of user modeling requirements and we discuss the involved concepts. Under ...

**Keywords:** ER model, conceptual modeling, data warehouse, star structure